

ABSTRACT

A METHOD OF DESPREADING A SPREAD SPECTRUM SIGNAL

5 A method of despreading a target spread spectrum signal containing pseudorandom noise (PRN) code sequences modulated by a data message is disclosed. The method comprises the steps of providing data message information relating to the timing of an epoch of at least one data bit; and performing a correlation of the target signal and a replica signal containing
10 corresponding PRN code sequences using the data message information to minimise degradation of the correlation caused by variations in the PRN code sequences in the target signal attributable to modulation by the data message.

The correlation may be timed so as to substantially avoid continuous correlation over an epoch of a data bit. Alternatively, the data message
15 information may further comprise bit information wherein the correlation is modified as a function of the data message information. In particular, where data bit modulation of the PRN code sequences in the target signal is the same as or equivalent to exclusive-or modulation, the polarity of PRN code sequences in the replica signal may be selectively reversed.

20 [Figure 2]